Pranjal Sahu

CONTACT INFORMATION	Stony Brook U Computer Scie Stony Brook, I	Computer Science University Ence Building, Engineering Dr New York 11790 USA .cs.stonybrook.edu/~psahu	(631)590-0490 psahu@cs.stonybrook.edu https://github.com/PranjalSahu	
RESEARCH INTERESTS	Deep Learning, Computer Vision, Computer Graphics and its application in Biomedical Imaging such as De-noising, Bio-markers detection, Volume reconstruction.			
EDUCATION	Stony Brook University, 3.87			
	Ph.D. Student in Computer Science (2016-2021 expected)			
	 Dissertation Topic: Deep Learning in Biomedical Imaging Advisor: Dr. Hong Qin 			
	Indian Institute of Technology Kharagpur, 8.35			
	B.Tech.(Hons) in Computer Science, 2013			
	 Thesis Topic: Object tracking in video and its application in Healthcare. Advisor: Dr. A.K. Majumdar 			
Publications	Pranjal Sahu , Hailiang Huang, Wei Zhao, and Hong Qin. <i>Using virtual digital breast tomosynthesis for de-noising of low-dose projection images</i> , International Symopsium on Biomedical Imaging, ISBI 2019.			
	Pranjal Sahu , Dantong Yu, Mallesham Dasari, Fei Hou and Hong Qin. <i>A Lightweight Multi-section CNN for Lung Nodule Classification and Malignancy Estimation</i> , IEEE Journal of Biomedical and Health Informatics, J-BHI, 2018.			
	Pranjal Sahu , Dantong Yu and Hong Qin. Apply lightweight deep learning on internet of things for low-cost and easy-to-access skin cancer detection, Medical Imaging: Imaging Informatics for Healthcare, Research, and Applications, International Society for Optics and Photonics, SPIE, 2018 (Best Demo Award).			
	Pranjal Sahu , Dantong Yu and Kevin Yager, Mallesham Dasari and Hong Qin. <i>In-Operando Tracking and Prediction of Transition in Material System using LSTM</i> , International Workshop on Autonomous Infrastructure for Science, HPDC, 2018.			
	Na Song, Daniela Craciun et al. <i>Protein Shape Retrieval</i> , Eurographics Workshop on 3D Object Retrieval, 3DOR 2017.			
SCIENTIFIC RESEARCH EXPERIENCE	2018–current	3D CNN regularized iterative Advisor: Dr. Wei Zhao, D		
	2017–2018	School of Medicine, Sto Autonomous Infrastructure for Advisor: Dr. Dantong Yu. Brookhaven National I	r Transition Prediction. , Computational Science Initiative,	

2015-2016

2015-2015

 $2013\hbox{-}2015$

Work

EXPERIENCE

Software Developer

 ${\bf Software\ Engineer}$

Data Scientist

Oyo Rooms, Gurgaon, India

Samsung Research Institute, Noida, India

HT Media, Gurgaon, India

TEACHING EXPERIENCE	Spring 2017 Teaching Assistant, Computer Graphics (Undergraduate) Spring 2017 Teaching Assistant, Medical Imaging (Undergraduate)			
Honors and Awards	2018 Best Demo Award in SPIE Medical Imaging Conference 2016–2017 Computer Science Chairman Fellowship, Stony Brook University 2007 Mahatma Hansraj merit award in CBSE Board 2006-07 2005 Represented (C.G.) state in National Children Science Congress			
Graduate Coursework	□ Computer Graphics □ Artificial Intelligence □ Computer Vision □ Analysis of Algorithms □ Computer Networks □ Asynchronous Systems □ Convex Optimization			
RELEVANT SKILLS	Languages: Python, C++, C, Matlab Deep Learning: Tensorflow, Keras Libraries: Android SDK, OpenCV, OpenGL, nltk IDEs: Eclipse, Android Studio, Jupyter Notebook			
OPEN SOURCE	Contributed to open-source reconstruction tool TIGRE.			
ACADEMIC PROJECTS	Stochastic Quasi-Newton Optimization for Deep Learning, Convex Optimization			
	Byzantine Chain Replication, Asynchronous Systems, (DistAlgo, Python)			
	Automatic construction of 3D models from Architectural Line drawings, Computer Graphics (OpenGL, C++).			
	Facial Action Unit Detection, Computer Vision, (Tensorflow).			
	Identification of user actions on Android apps, Computer Networks, (Android)			
	Process Knowledge extraction, Artificial Intelligence, (Python)			
	Object Tracking in Video and its application in Healthcare, B.Tech Thesis, (OpenCV)			
	Point Cloud Triangulation, Computer Graphics, (OpenGL, C++)			
EXTRA CURRICULARS	 □ Silver medal in Inter Hall Thermocol and clay modelling at IIT Kharagpur □ Member of Azad Hall of Residence Fine Arts team at IIT Kharagpur 			